

Department of Energy

Richland Operations Office P.O. Box 550 Richland, Washington 99352

SEP 0 2 2005

05-AMCP-0400

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Radiation and Indoor Air Section
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Region 10
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Mr. O. S. Wang
Nuclear Waste Program
State of Washington
Department of Ecology
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Addressees:

TRANSMITTAL OF RADIOACTIVE AIR EMISSIONS NOTICE OF CONSTRUCTION FOR DEACTIVATION OF THE PLUTONIUM FINISHING PLANT, DOE/RL-2003-43, REVISION 0A

The purpose of this letter is to submit a Notice of Construction (NOC) Application/Permit Revision for approval.

Enclosure 1 is a copy of the subject NOC Application/Permit Revision/AOP Off-Permit Change Notification form. This NOC application is being submitted to the Washington State Department of Health for approval pursuant to Washington Administrative Code 246-247-060 and to the U.S. Environmental Protection Agency Region 10 for information.

Enclosure 2 is a Notification of Off-Permit Change to incorporate the revised NOC for potential radioactive air emissions from deactivation activities into the Hanford Site Air Operating Permit (AOP). This information is being provided to the State of Washington Department of Ecology consistent with the role as lead for the Hanford Site AOP.

If you have any questions, please contact me, or you may contact Craig Richins, of my staff, on (509) 372-3248.

Sincerely,

Matthew S. McCormick, Assistant Manager

AMCP: WCW for the Central Plateau

Enclosures

cc w/encls:

J. A. Bates, FHI

R. W. Bloom, FHI

G. Bohnee, NPT

L. D. Crass, FHI

L. J. Cusack, Ecology

R. H. Engelmann, DFSH

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R. W. Oldham, FHI

K. A. Peterson, FHI

J. W. Schmidt, WDOH

Administrative Record (files: Radioactive Air Emissions

Notice of Construction for the Deactivation of the

Plutonium Finishing Plant/WDOH NOC ID

Number 608/AIR 04-1209)

Environmental Portal

Enclosure 1

TRANSMITTAL OF NOC APPLICATION/PERMIT REVISION/AOP OFF-PERMIT CHANGE NOTIFICATION DOE/RL-2003-43, REVISION 0A

NOC Application/Permit Revision/AOP Off-Permit Change Notification NOTE: Any increase to abated or unabated PTE requires a full NOC modification

REASON FOR CHANGE

| | Submittal Date: | 8/25/05 |
|---|--|--|
| 스크로 보고 있는 경기 등에 되었다. 그렇게 하고 있는 것들이 있는 것들이 있다고 있다. | Submittal Type: Otl | ner Submittal |
| NOC Application Revisi | o n | Condition Change/ Clarification |
| New NOC Rev Number: | DOE/RL-2003- 43, Rev. 0A | WDOH Condition Number: |
| Request for revision of ap | proval conditions | AOP Condition Number: |
| ALARACT Revision | | |
| — New ALARACT Rev Nu | nber: | 고객들의 경우 시민들은 것을 수 있는 그는 것이다. 그런 것으로 함께 되었다. 그는 생물이 있는 것이 있는 것이다. 그런 것이다. 그런 것이다. |
| | | |
| | PROJECT IDENT | HEATION |
| Project Title: Deactivation | of the Plutonium Finis | hing Plant (PEP) |
| Current NOC Application Nur | | |
| AEI ID Number (AOP Emissi | to the state of th | 486 |
| Current WDOH Approval Lett | | R 04-1209 |
| 그 도 그는 것이 있다. 그 그 그 사람들은 등 사용하지만 하루바라를 하는 아니라는 그 사람들이 아니라 다른 사람들이 되었다. | 508 | |
| | | |
| | DESCRIPTION O Number of Attachme | |
| WDOH will provide a new ap | | insi ig any new or modified conditions that result |
| 人名伊格特 化间流 医多氏病 化甲酰苯酚 经租赁 化二氢氧化 化原体 化二氢基化异苯甲酸苯甲苯 | from the following pro | · 프랑텐데 1. 라틴 영화학과 프로 중요 (1) 그리고 하는 사이를 보고 있는데 보고 있는데 그리고 있는데 그리고 있는데 그리고 있는데 되었다. |
| | | |
| Proposed Change (provide orig | ginal and proposed wo | rding): |
| The second and MOC second are second | | |
| 一点,就是这些人,就是一个的时候,是我的事情况,我们的是一个人,我们就是这个女性,我们就会不知识的,但只是这个人。 | 8 3 2 4 4 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 | gitive emissions associated with fuel proved condition and limitation # 32. For |
| 가 하다는 경험을 즐겨로 있었다. 그는 생물이 되어 나왔어요? 하나 바람들이를 하는 하다는 것도 하나 나를 다 나갔다. | 하고 10 전기에게 가수있다면서 수 무하다는 것 같아요? 함께 하다 때문에 | proved condition and initiation $\#$ 32. To pare the container for shipment, the container |
| 그는 것이다. 그는 어떻게 하게 한민만에 잘 목표를 통해 하면요? 그들은 사람들이 되는 것이 없는 것이다. 그들은 사람들이 어떻게 되었다. | 보기하는 보는 전체에 가는 특성하다를 하는 수 많이 흔드 분들이 살을 | um pump. The interior of the shipping |
| 그는 경기는 사람들 마음이 가는 것이 되었다. 학생들은 학생들은 경기를 가장 하는 것이 되었다. 그렇게 다 나왔다. | こうようはいち 声 かんい フセタンかんじからば せいって じんしん ろか | counted for in the potential to emit (PTE) as |
| 그는 위한 그렇게 다 그 수 없는 것 같다. 지원 사람들이 그 사람들은 유럽게 되었다. 그 같은 점점으로 모른 생각은 | | of the portable vacuum pump represents a |
| 그들이들은 이번 사람 회식의 이내 전에 되었다면 이 나가 되었다면 사용한 시간에 가지 않아 하는 것이다. | 왕 프로그 경영 화가 보다 하시 사람들은 사용하다 사용하다. | sions from the fuel loading activities that |
| 一一种 医黑色性 人名英格兰 网络拉拉拉拉 医神经神经 医二种腺病病 化二氯化甲基乙酰胺 医多种畸形术 | | E in the NOC. This revision is provided |
| 그는 사람이 하는 그리 화병을 하면 하는 것이라면 하는 사람이 가게 하는 것이 되었다. | an agus i an chu chan chuat na bha baistig an bh | described in the original application or |

FOR WDOH USE ONLY Data Entry Completed By:

explicitly described in either the portable temporary radioactive air emission unit (PTRAEU) or

HEPA filtered vacuum NOCs.

The current approval condition #37, item 7:

7. If a guzzler, PTRAEU, or HEPA filtered vacuum radioactive air emission unit is used, controls as described in the respective sitewide guzzler NOC, DOE/RL-96-75, or DOE/RL-97-50, as amended and licensed, would be followed.

The proposed change would be to add the following as supplemental to the NOC and as reflected in the NOC approval conditions:

For purging activities, use of a stand alone vacuum pump fitted with a Nuc-FilTM metal HEPA filter is allowed, with the control that the filter flow through the system is limited not to exceed the filter rating. Confirmatory measurement of low emissions will be based on radiological technician field survey of either the down stream side of the HEPA filter or at the outlet of the vacuum pump.

Justification for Requested Revisions:

The change does not represent an increase in the estimated potential-to-emit, but describes a process change to manage a necessary effluent associated with preparing the container for shipment. Due to the low potential for emissions and the conservative estimate of PTE already approved for the fuel handling activities, no increase in estimated PTE from those activities is expected. In addition, with the purge vent filter controls being put in place, no increase in estimated actual emissions is anticipated.

Nuc-FilTM metal HEPA filters have demonstrated consistent reliability in nuclear industry application. The filter will be installed upstream of the vacuum pump used for the purging. The total volume of gas displaced during the purge represents approximately 10 cubic feet. The purging requires repeated evacuation and backfill with inert gas. The PTE associated with the evolution is due to residual contamination (< 20,000 dpm beta/gamma per 100 cm²) that may be present within the shipping container and is not dependent upon the number of purging cycles. Two shipments are anticipated with minimum three purging iterations each (additional purgings may be needed to achieve proper closure of the shipping container).

Enclosure 2

NOTICE OF OFF-PERMIT CHANGE FOR THE HANFORD SITE AIR OPERATING PERMIT (NUMBER 00-05-006) FOR REVISION 0A, RADIOACTIVE AIR EMISSIONS NOTICE OF CONSTRUCTION FOR DEACTIVATION OF THE PLUTONIUM FINISHING PLANT (PFP), DOE/RL-2003-43

HANFORD SITE AIR OPERATING PERMIT

Notification of Off-Permit Change

Permit Number: 00-05-006

This notification is provided to Washington State Department of Ecology, Washington State Department of Health, and the U.S. Environmental Protection Agency as notice of an off-permit change described as follows.

This change is allowed pursuant to WAC 173-401-724(1) as:

- 1. Change is not specifically addressed or prohibited by the permit terms and conditions
- 2. Change does not weaken the enforceability of the existing permit conditions
- 3. Change is not a Title I modification or a change subject to the acid rain requirements under Title IV of the FCAA
- 4. Change meets all applicable requirements and does not violate an existing permit term or condition
- 5. Change has complied with applicable preconstruction review requirements established pursuant to RCW 70.94.152.

| Provide the following information pursuant to WA | C-173-401-724(3): |
|--|--|
| Description of the change: | |
| revision per NOC Application/Permit Revision | tion of the Plutonium Finishing Plant (PFP), DOE/RL-2003-43, n/AOP Off-Permit Change Notification DOE/RL-2003-43, gton State Department of Health (WDOH) for approval. A change quired to indicate this revised NOC. |
| Date of Change: | |
| Effective date will be the approval by WDOH. | |
| Describe the emissions resulting from the chang | (C. |
| Radioactive air emissions will not be affected by the | his change. |
| Describe the new applicable requirements that | will apply as a result of the change: |
| Applicable requirements will be identified in appro- | oval notifications by WDOH. |
| For Hanford Use Only: | |
| AOP Change Control Number: | Date Submitted: |
| 그림 발생하는 물 등을 하는 것을 불어가고 말했다면 물어들은 살 살아 없었다는 것 같아요? 그 살아 없는 것 같아. | 현실 경험 모양 교육 이 선생님들은 한 경험 결혼을 발표했다. 이 강하는 물리를 하는 것이 되었는데 그는 사람들은 경험 경험을 모르는 아니까? |